

KOMATSU



Surface Feeder-Breakers Product Overview



Feeder-Breakers

The feeder-breaker is an integral part of a material handling system providing efficient, flexible sizing and surge capability. An integrated crushing and conveying system allows equipment to operate at maximum efficiency and productivity.



Summary

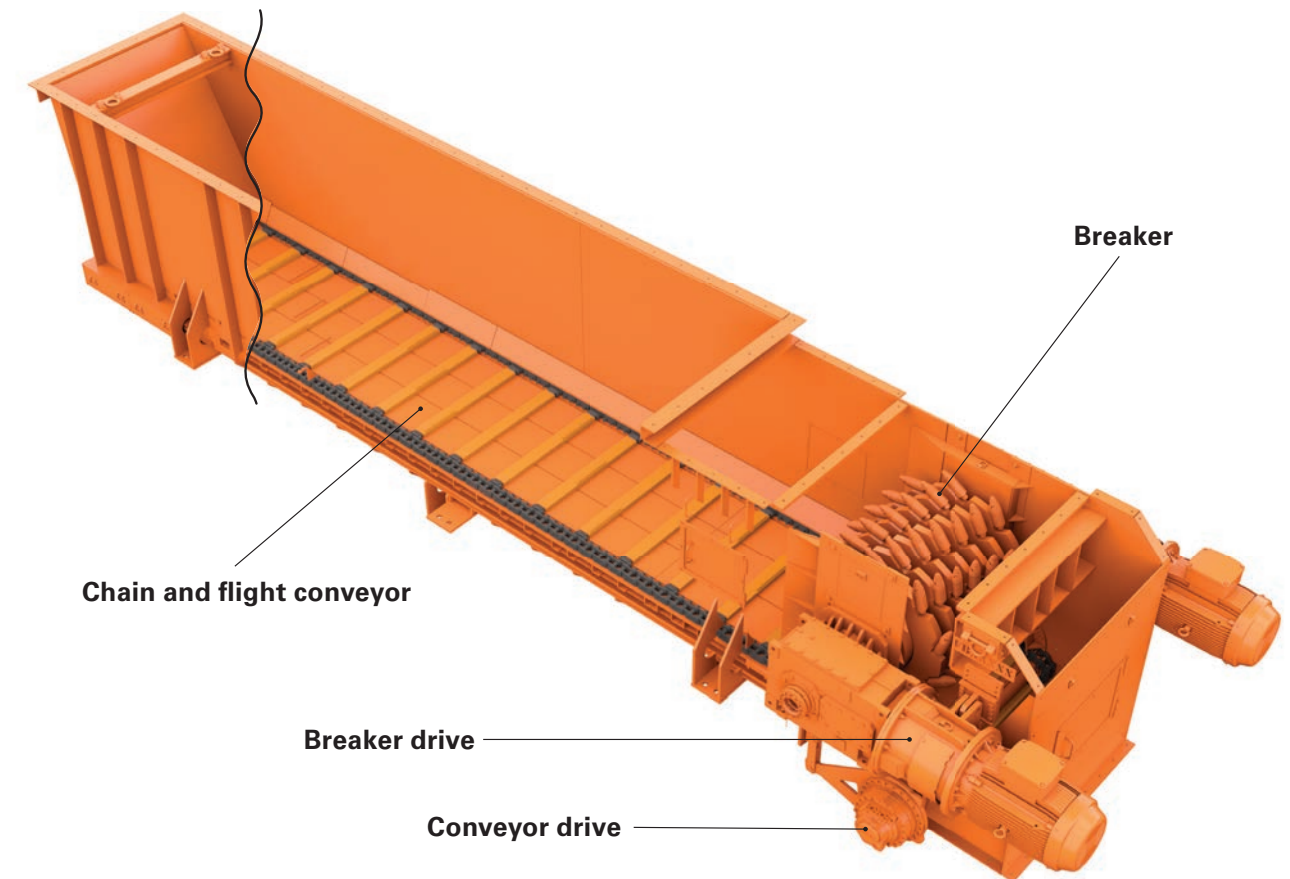
The Joy feeder-breaker is designed to reduce your operating costs and increase your productivity. Joy feeder-breakers can be designed for a variety of mining and industrial applications, including coal, phosphate cement, limestone, petroleum coke and gypsum board, among other materials. By custom-designing and building the feeder-breaker for your specific haulage and conveyor systems, your operation will realize optimum availability and reliability.

Benefits

- Joy feeder-breakers feature a low, horizontal profile that operates without eccentric motion to provide the lowest height truck dump installation of any crusher arrangement available
- For maximum space efficiency, each feeder-breaker features an integral surge hopper, a flight conveyor, and a rotary pick breaker
- Specific material output size is achieved by breaker picks and a pick pattern designed to work with conveyor flights
- High-strength engineered conveyor chain, with hardened link pins, is specially manufactured for long life, low maintenance and superior dependability
- Breaker drives are electro-mechanically direct driven
- Optional crawler, wheel or skid mounting provides mobility to help reduce haulage cycle time and increase productivity

The Joy feeder-breaker performs three important functions:

- **Surge capacity** – A surge hopper at the intake end of the feeder-breaker allows trucks or other haulage equipment to discharge material at the maximum rate
- **Size reduction** – A powerful rotary pick breaker reduces material to a consistent size easily handled by conveyor belts and secondary crushing operations
- **Rationing/feeding** – As the product moves through the feeder-breaker, the material flow is discharged onto the conveyor at a steady rate the belt can accept, virtually eliminating spillage, reducing wear and significantly increasing belt life



When compared to conventional primary crushers, Joy feeder-breakers offer:

- Lower initial cost
- Easier installation because site excavation and concrete work are reduced or eliminated
- Higher throughput per horsepower
- Lower power consumption
- Fewer fines because the material is fractured rather than crushed
- Larger lumps of material handled routinely
- Lower profile:
 - Most haulage equipment can discharge directly into the feeder hopper
 - No need for ramps or costly elevating and discharge conveyors



A powerful rotary pick breaker reduces material to a consistent size easily handled by conveyor belts and secondary crushing operations. The carbide-tipped picks on the breaker shafts are designed to interlace with solid steel alloy flights to maintain a consistent product size.

Komatsu Mining Corp. Group

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